

WHAT IS CLAIMED:

1. A heavy-duty demolition apparatus for attachment to the boom structure and hydraulic system of an excavator, the apparatus having a blade-stabilizing device, the
5 apparatus having a forward end and a rearward end, the apparatus comprising:
 - (a) a lower jaw and an upper jaw and pivot means interconnecting the jaws together, means for attachment to the boom structure of the excavator, the upper jaw having a first side and a second side, the lower jaw having a
10 first mounting plate adjacent the first side and a second mounting plate adjacent the second side, the first and second mounting plates receiving the pivot means therebetween, and the upper jaw having means for attachment to the hydraulic system of the excavator for closing and opening the upper jaw relative to the lower jaw; the lower jaw and the upper jaw shearing a workpiece when the upper jaw is closed upon the
15 lower jaw; and
 - (b) a blade stabilizing device engaging the upper jaw to prevent the upper jaw from moving laterally with respect to the lower jaw and for reducing lateral stress on the upper jaw while shearing the workpiece, wherein the blade stabilizing device further comprises a first blade stabilizer attached
20 to the first mounting plate and slidably engaging the upper jaw on the first side of the upper jaw, the first blade stabilizer further comprising a guide engaging the upper jaw, means for attaching the guide to the first mounting plate, and a shim for adjusting the clearance between the guide and the upper jaw.
- 25 2. The apparatus of claim 1, further comprising an adjustment plate between the shim and the first mounting plate.
3. The apparatus of claim 1, wherein the means for attaching the guide to the first mounting plate comprises threaded bolts.

4. The apparatus of claim 1, wherein the guide has a grease channel opening onto the upper jaw and a grease fitting for delivering grease to the grease channel for lubricating the engagement between the guide and the upper jaw.
5. The apparatus of claim 1, wherein the upper jaw further comprises a pocket receiving the guide therein.
6. The apparatus of claim 1, further comprising a second blade stabilizer attached to the second mounting plate and slidably engaging the upper jaw on the second side of the upper jaw, the second blade stabilizer further comprising a second guide engaging the upper jaw, means for attaching the second guide to the second mounting plate, and a shim for adjusting the clearance between the second guide and the upper jaw.
7. The apparatus of claim 6, wherein the first blade stabilizer is mounted rearwardly of the pivot means and the second blade stabilizer is mounted forwardly of the pivot means.
8. The apparatus of claim 6, further comprising an adjustment plate between the shim and the second mounting plate.
9. The apparatus of claim 6, wherein the means for attaching the second guide to the second mounting plate comprises threaded bolts.
10. The apparatus of claim 6, wherein the second guide has a grease channel opening onto the upper jaw and a grease fitting for delivering grease to the grease channel for lubricating the engagement between the second guide and the upper jaw.
11. The apparatus of claim 6, wherein the upper jaw further comprises a second pocket receiving the second guide therein.

12. A heavy-duty demolition apparatus for attachment to the boom structure and hydraulic system of an excavator, the apparatus having a blade-stabilizing device, the apparatus having a forward end and a rearward end, the apparatus comprising:

5 (a) a lower jaw and an upper jaw and pivot means interconnecting the jaws together, means for attachment to the boom structure of the excavator, the upper jaw having a first side and a second side, the lower jaw having a first mounting plate adjacent the first side and a second mounting plate adjacent the second side, the first and second mounting plates receiving the pivot means therebetween, and the upper jaw having means for
10 attachment to the hydraulic system of the excavator for closing and opening the upper jaw relative to the lower jaw; the lower jaw and the upper jaw shearing a workpiece when the upper jaw is closed upon the lower jaw; and

15 (b) a blade stabilizing device engaging the upper jaw to prevent the upper jaw from moving laterally with respect to the lower jaw and for reducing lateral stress on the upper jaw while shearing the workpiece, wherein the blade stabilizing device further comprises a first blade stabilizer attached to the first mounting plate and slidably engaging the upper jaw on the first side of the upper jaw, the first blade stabilizer further comprising a guide
20 engaging the upper jaw, means for attaching the guide to the first mounting plate, and a shim for adjusting the clearance between the guide and the upper jaw, and wherein the blade stabilizing device further comprises a second blade stabilizer attached to the second mounting plate and slidably engaging the upper jaw on the second side of the upper jaw,
25 the second blade stabilizer further comprising a second guide engaging the upper jaw, means for attaching the second guide to the second mounting plate, and a shim for adjusting the clearance between the second guide and the upper jaw.

13. The apparatus of claim 12, further comprising an adjustment plate between the shim and the first mounting plate and between the shim and the second mounting plate.
14. The apparatus of claim 12, wherein the means for attaching the guides to the first mounting plate and second mounting plate comprises threaded bolts.
- 5 15. The apparatus of claim 12, wherein the guides have a grease channel opening onto the upper jaw and a grease fitting for delivering grease to the grease channel for lubricating the engagement between the guides and the upper jaw.
16. The apparatus of claim 12, wherein the upper jaw further comprises pockets receiving the guides therein.
- 10 17. The apparatus of claim 12, wherein the first blade stabilizer is mounted rearwardly of the pivot means and the second blade stabilizer is mounted forwardly of the pivot means.